

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Framptons Limited

Shepton Mallet Egg Processors and Contract Packers
76 Charlton Road
Shepton Mallet
Somerset
BA4 5PD

Variation application number

EPR/BN9551IT/V006

Permit number

EPR/BN9551IT

Shepton Mallet Egg Processors and Contract Packers

Permit number EPR/BN9551IT

Introductory note

This introductory note does not form a part of the notice

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

The main purpose of the activity at this installation is the processing and packing of liquid egg and egg products and other liquid foods including soya milk, goats milk and fruit juices. This variation relates to the addition of a small waste co-incineration plant (SWCP), to produce steam for use in site processes. The SWCP will burn non-hazardous waste wood and on-site packaging waste up to a maximum of 10,000 tonnes per annum. There are three gas-fired boilers existing on site, two will become back-up boilers as part of this variation, the third will be removed. The boilers will not operate at the same time as the SWCP.

The SWCP will discharge combustion gases through an 18.4m high chimney. Emissions abatement equipment including a urea-based Selective Non-Catalytic Reduction (SNCR) system for the control of NO_x emissions, sodium bicarbonate injection for the control of acid gases, and a ceramic filter particulate arrestor will be installed with the SWCP and a continuous emissions monitoring system (CEMS) will constantly monitor key emissions from the chimney.

The permit boundary has been extended to incorporate the area where the SWCP will be located.

A gas fired Combined Heat and Power (CHP) unit is also being installed at the site to produce electricity and additional steam which will be used by the site operations. The CHP unit will be owned and operated by a third party and will be regulated via a separate Environmental Permit subject to determination.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application BN9551IT	Received 18/09/2004	
Request for information	Request dated 13/12/2004	Response dated 17/12/04
Duly Made	18/09/2004	
Sch. 4 extension for 28 days	Issued 18/09/2004	Response dated 22/11/04
Response to request for information	07/02/2005	Response dated 21/02/05
Response to request for information	03/03/2005	Response dated 09/03/05
Response to request for information	31/03/2005	Response dated 01/04/05

Status log of the permit		
Description	Date	Comments
Extension of determination period	28/01/2005	Response dated 01/02/05
Permit determined	09/05/2005	
Application for variation	Received 03/08/2007	
Requests for further information	14/08/2007 & 21/08/2007	Responses dated 16/08/07 & 22/08/07
Duly Made	03/10/2007	
Requests for further information	08/10/2007	Response dated 15/10/2007
Variation SP3431UK	Determined 26/11/2007	
Application for variation EPR/BN9551IT/V003	Duly made 02/02/2010	
Variation issued EPR/BN9551IT/V003	08/03/2010	
Agency variation determined EPR/BN9551IT/V004	11/02/2014	Agency variation to implement the changes introduced by IED
Application for variation EPR/BN9551IT/V005 (PAS/billing ref. NP3233QQ)	19/09/2018	Returned as not duly made
Application EPR/BN9551IT/V006 (variation and consolidation)	Duly made 27/01/2021	Application to remove two gas fired boilers and vary the permit to add a small waste co-incineration plant (SWCP) and extend boundary.
Variation determined and consolidation issued EPR/BN9551IT/V006 (PAS/Billing ref. FP3408LY)	21/10/2021	Varied and consolidated permit issued in modern format

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number

EPR/BN9551IT

Issued to

Framptons Limited ("the operator")

whose registered office is

Framptons Limited

76 Charlton Road

Shepton Mallet

Somerset

BA4 5PD

company registration number 00927723

to operate a regulated facility at

Shepton Mallet Egg Processors and Contract Packers

76 Charlton Road

Shepton Mallet

Somerset

BA4 5PD

to the extent set out in the schedules.

The notice shall take effect from 21/10/2021.

Name	Date
Samantha Haddock	21/10/2021

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BN9551IT

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BN9551IT/V006 authorising,

Framptons Limited (“the operator”),

whose registered office is

Framptons Limited

76 Charlton Road

Shepton Mallet

Somerset

BA4 5PD

company registration number 00927723

to operate an installation at

Shepton Mallet Egg Processors and Contract Packers

76 Charlton Road

Shepton Mallet

Somerset

BA4 5PD

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Samantha Haddock	21/10/2021

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Energy efficiency

1.2.1 The operator shall:

- (a) take appropriate measures to ensure that energy is recovered with a high level of energy efficiency and energy is used efficiently in the activities.
- (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
- (b) maintain records of raw materials and water used in the activities;
- (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 For the following activities referenced in schedule 1, table S1.1 (A5), waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.7 For the following activities referenced in schedule 1, table S1.1 (AR5), waste shall not be charged, or shall cease to be charged, if:
- (a) the combustion chamber temperature is below, or falls below 850°C; or
 - (b) any continuous emission limit value in schedule 3 table S3.1(a) is exceeded; or

- (c) any continuous emission limit value in schedule 3 table S3.1 is exceeded, other than under abnormal operating conditions; or
- (d) monitoring results required to demonstrate compliance with any continuous emission limit value in schedule 3 table S3.1 are unavailable other than under abnormal operating conditions; or
- (e) there is a stoppage, disturbance or failure of the abatement system, other than under abnormal operating conditions.

2.3.8 The operator shall have at least one auxiliary burner in each line which shall be operated at start up, shut down and as required during operation to ensure that the operating temperature specified in condition 2.3.7 is maintained as long as incompletely burned waste is present in the combustion chamber. Unless the temperature specified in condition 2.3.7 is maintained in the combustion chamber, such burner(s) shall be fed only with fuels which result in emissions no higher than those arising from the use of gas oil, liquefied gas or natural gas.

2.3.9 The operator shall record the beginning and end of each period of "abnormal operation".

2.3.10 During a period of "abnormal operation", the operator shall restore normal operation of the failed equipment or replace the failed equipment as rapidly as possible.

2.3.11 Where, during "abnormal operation", on an incineration line, any of the following situations arise, waste shall cease to be charged on that line until normal operation can be restored:

- (a) continuous measurement shows that an emission exceeds any emission limit value in schedule 3 table S3.1(a) due to stoppages, disturbances or failures of the abatement plant, or continuous emission monitor(s) are out of service, as the case may be, for a total of 4 hours uninterrupted duration;
- (b) there is a technically unavoidable stoppage, disturbance or failure of the abatement system for a total of 4 hours uninterrupted duration;
- (c) the cumulative duration of "abnormal operation" periods over 1 calendar year has reached 60 hours;
- (d) continuous measurement shows that an emission exceeds any emission limit value in schedule 3 table S3.1(a).
- (e) continuous emission monitors or alternative techniques to demonstrate compliance with the emission limit value(s) for particulates, TOC and / or CO in schedule 3 table S3.1(a), or as agreed in writing with the Environment Agency, are unavailable.

2.3.12 The operator shall interpret the end of the period of "abnormal operation" as the earliest of the following:

- (a) when the failed equipment is repaired and brought back into normal operation;
- (b) when the operator initiates a shutdown of the waste combustion activity, as described in the application or as agreed in writing with the Environment Agency;
- (c) when a period of four hours has elapsed from the start of the "abnormal operation";
- (d) when, in any calendar year, an aggregated period of 60 hours "abnormal operation" has been reached on an incineration line.

2.3.13 Bottom ash and APC residues shall not be mixed.

2.4 Improvement programme

2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 For the following activities referenced in schedule 1, table S1.1 (AR5), the activity shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.1(a), S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 For the following activities referenced in schedule 1, table S1.1 (AR5) wastes produced at the site shall, as a minimum, be sampled and analysed in accordance with schedule 3 table S3.5. Additional samples shall be taken and tested and appropriate action taken, whenever:
- (a) disposal or recovery routes change; or
 - (b) it is suspected that the nature or composition of the waste has changed such that the route currently selected may no longer be appropriate.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.
- 3.2.4 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1, S3.1(a), S3.2 and S3.3;
- (b) process monitoring specified in table S3.4; and
- (c) residue quality in table S3.5.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency. Newly installed CEMs, or CEMs replacing existing CEMs, shall have MCERTS certification and have an MCERTS certified range which is not greater than 1.5 times the daily emission limit value (ELV) specified in schedule 3 table S3.1. The CEM shall also be able to measure instantaneous values over the ranges which are to be expected during all operating conditions. If it is necessary to use more than one range setting of the CEM to achieve this requirement, the CEM shall be verified for monitoring supplementary, higher ranges.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.1(a), S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

3.5.5 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in schedule 3 table S3.1 and S3.1(a); the Continuous Emission Monitors shall be used such that;

- (a) the values of the 95% confidence intervals of a single measured result at the daily emission limit value shall not exceed the following percentages of the emission limit values:

- Carbon monoxide 10%
 - Sulphur dioxide 20%
 - Oxides of nitrogen (NO & NO₂ expressed as NO₂) 20%
 - Particulate matter 30%
 - Total organic carbon (TOC) 30%
 - Hydrogen chloride 40%
- (b) valid half-hourly average values shall be determined within the effective operating time (excluding the start-up and shut-down periods) from the measured values after having subtracted the value of the confidence intervals in condition 3.5.5 (a);
- (c) where it is necessary to calibrate or maintain the monitor and this means that data are not available for a complete half-hour period, the half-hourly average shall in any case be considered valid if measurements are available for a minimum of 20 minutes during the half-hour. The number of half-hourly averages so validated shall not exceed 5 per day;
- (d) daily average values shall be determined as the average of all the valid half-hourly average values within a calendar day. The daily average value shall be considered valid if no more than 5 half-hourly average values in any day have been determined not to be valid;
- (e) no more than ten daily average values per year shall be determined not to be valid.

3.6 Pests

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 The operator shall:

- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests; and
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.7 Fire prevention

3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

- (i) off-site environmental effects; and
- (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production/treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—

- (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

- (a) a decision by the Secretary of State not to re-certify the agreement;
- (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
- (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	S6.8 A1 (d)(i) Treatment and processing, other than exclusively packaging, of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed (where the weight of the finished product excludes packaging) – only animal raw materials (other than milk only) with a finished production capacity greater than 75 tonnes per day	Liquid egg processors. The packing of soya milk, goats milk and fruit juices.	Receipt of raw materials to dispatch of product.
AR2	S5.4 A1 (a)(ii) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving one or more of the following activities – physico-chemical treatment	Effluent Treatment Plant (ETP)	From receipt of effluent to the release at the consented discharge point the plant must be operated as described in the Application
Directly Associated Activity			
AR3	Omelette Oven Abatement Plant	Omelette Oven Abatement Plant	Receipt of gaseous emissions generated by the installation to discharge to the atmosphere
AR4	Natural gas-fired steam boilers	Two natural gas fired boilers. Back-up plant only to be operated when the SWCP is unavailable.	From receipt of raw materials to dispatch of combustion products
AR5	Small waste co-incineration plant (SWCP) Schedule 13	Operation of one 4.39 MWth (input) biomass boiler unit (which is a SWCP) burning non-hazardous waste wood and on-site packaging waste to produce	From receipt of waste to emission of exhaust gas and disposal of waste arising. Waste types as specified in table S2.2.

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
		steam for use in site processes	To be carried out exclusively for the purpose of providing steam/heat for activities AR1 and AR3.
AR6	Storage and disposal of waste	Waste storage and disposal	From generation of waste to either - dispatch off site; or - use as fuel in SWCP (packaging waste only)
AR7	Disposal of surface water	Surface water disposal	From collection to discharge into River Sheppey
AR8	Transfer of untreated effluent from the production area to the ETP	Untreated effluent transfer from the production area to the ETP	From collection to the inlet of the ETP

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to questions 2.2.2 to 2.2.5 and sections 2.10.9 to 2.10.14 of the application and Annex G of the application.	18/09/04
Variation Application reference SP3431UK dated 03/08/07 and responses to requests for further information dated 16/08/08 and 22/08/07	All	August 2007
Variation Application reference EA/EPR/BN9551IT/V003 dated 02/02/10	All	February 2010
Variation Application reference EA/EPR/BN9551IT/V006	The responses to questions in Part C2 and C3 of the application and supporting documents, including, but not limited to air dispersion modelling (revised) and 'addendum to permit variation'	Duly made 27/01/21

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to Schedule 5 notice issued 16/03/21	Fire Prevention Plan and additional information provided by email on 10/05/2021	14/04/2021 10/05/2021

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall implement measures to improve the surfacing, bunding or sumps of storage tanks, vessels and storage areas for raw materials and wastes, such that any spillages are fully contained and may be recovered, having regard to Section 2.8 of Sector Guidance Note IPPC S6.10. The Operator shall provide the Agency with a written report detailing any works undertaken to ensure compliance with this Improvement Condition.	01/01/06
IC2	The Operator shall develop a written Site Closure Plan with regard to the requirements set out in Section 2.11 of the Agency Guidance Note IPPC S6.10. Upon completion of the plan a summary of the document shall be submitted to the Agency in writing.	01/06/06
IC3	The Operator shall provide a report in writing to the Agency detailing the monitoring method used to determine effluent flow at release point S1. The monitoring method shall be agreed in writing with the Agency.	01/09/05
IC4	The Operator shall assess the current method for effluent flow as agreed in IC3 with the requirements given in the MCERTS standard 'Minimum requirements for the self-monitoring of effluent flow' version 2, Aug 2004. A written report shall be provided to the Agency detailing how this standard is to be achieved and shall include time scales for implementation.	01/01/07
IC5	The Operator shall submit a revised SPMP including an Environmental Monitoring Programme which ensures that all chemicals on site are safely stored. A new Planned Preventative Maintenance Schedule for the ETP is also required.	Before the plant is brought into use.
IC6	The Operator shall submit Commissioning Plans for the ETP which must be approved by the Agency.	Before the plant is brought into use.
IC7	The Operator shall submit the Handover Document from the Contractor for the ETP for approval by the Agency.	Before the plant is brought into use.
IC8	The Operator shall submit the Operating and Process Procedures from the Contractor for the ETP. These shall include but not be limited to all alarms and control points. The design capability shall also be defined.	Before the plant is brought into use.

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC9	The Operator will review the performance of the ETP and consider the application of ELCs if appropriate.	6 months after commissioning.
IC10	The operator shall notify the Environment Agency of the proposed date(s) that validation testing of the SWCP is planned for.	Notification at least 3 weeks prior to validation testing
	During commissioning of the SWCP the operator shall carry out validation testing to validate the residence time, minimum temperature and oxygen content of the gases in the furnace whilst operating under normal load and most unfavourable operating conditions. The validation shall be to the methodology as approved through pre-operational condition PO6.	Validation tests completed before the end of commissioning
	The operator shall submit a written report to the Environment Agency on the validation of residence time, oxygen and temperature whilst operating the SWCP under normal load, minimum turn down and overload conditions. The report shall identify the process controls used to ensure residence time and temperature requirements are complied with during operation of the SWCP.	Report submitted within 2 months of the completion of commissioning.
IC11	The Operator shall submit a written summary report to the Environment Agency to confirm that the performance of Continuous Emission Monitors for parameters as specified in Table S3.1 and Table S3.1(a) complies with the requirements of BS EN 14181, specifically the requirements of QAL1, QAL2 and QAL3. The report shall include the results of calibration and verification testing,	Initial calibration report to be submitted to the Agency within 3 months of completion of commissioning. Full summary evidence compliance report to be submitted within 18 months of completion of commissioning.
IC12	The Operator shall provide evidence that staff training for the operation of the SWCP has been completed.	Within 1 month of the completion of commissioning

Table S1.4 Pre-operational measures	
Reference	Pre-operational measures
PO1	<p>Prior to the storage of waste wood and operation of the SWCP, the operator will provide the following information to support the FPP, for approval by the Environment Agency:</p> <ul style="list-style-type: none"> • updated ignition sources following the completion of the fire risk assessment • the final version of the site drainage plan • an updated vehicle maintenance schedule to confirm onsite vehicles and confirmation that these are electric • evidence that the fire detection system is installed and UKAS accredited.
PO2	<p>Prior to the commencement of commissioning of the SWCP, the Operator shall submit to the Environment Agency, and obtain the Environment Agency's written approval to it, a protocol for the sampling and testing of incinerator bottom ash for the purposes of assessing its hazard status. Sampling and testing shall be carried out in accordance with the protocol as approved.</p>
PO3	<p>Prior to the commencement of commissioning of the SWCP, the Operator shall submit to the Environment Agency, and obtain the Environment Agency's written approval to it, a written commissioning plan, including timelines for completion, for approval by the Environment Agency. The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the actions to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions. Commissioning shall be carried out in accordance with the commissioning plan as approved.</p>
PO4	<p>No later than one month after the final design of the furnace and combustion chamber, the operator shall submit a written report to the Environment Agency, and obtain the Environment Agency's written approval to it, of the details of the assessment and calculations of residence time and temperature. The report shall explain how the furnace has been designed to comply with the residence time and temperature requirements as defined by Chapter IV and Annex VI of the IED whilst operating under normal load and the most unfavourable operating conditions (including minimum turn down and overload conditions), and that the design includes sufficient monitoring ports to support subsequent validation of these requirements during commissioning.</p>
PO5	<p>At least three months before (or other date agreed in writing with the Environment Agency) the commencement of commissioning of the SWCP, the Operator shall submit a written report to the Environment Agency, and obtain the Environment Agency's written approval to it, specifying arrangements for continuous and periodic monitoring of emissions to air to comply with Environment Agency guidance notes M1, M2 and M20. The report shall include the following:</p> <ul style="list-style-type: none"> • Plant and equipment details, including accreditation to MCERTS • Methods and standards for sampling and analysis • Details of monitoring locations, access and working platforms
PO6	<p>At least 3 months before the commencement of commissioning of the SWCP (or other date agreed in writing with the Environment Agency) the Operator shall submit, for approval by the Environment Agency, a methodology (having regard to Technical Report P4-100/TR Part 2 Validation of Combustion Conditions) to verify the residence</p>

Table S1.4 Pre-operational measures	
Reference	Pre-operational measures
	time, minimum temperature and oxygen content of the gases in the furnace whilst operating under normal load, minimum turn down and overload conditions.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Natural gas	Mains supply for use in auxiliary burners and as fuel in back-up boilers

Table S2.2 Permitted waste types and quantities for the incineration of wood in the small waste co-incineration plant	
Maximum quantity	The total quantity of waste accepted at the site for use in the small waste co-incineration plant shall be less than 10,000 tonnes per year. Maximum storage on site at any one time: 150 tonnes
Waste code	Description
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 03	plant-tissue waste
02 01 07	wastes from forestry
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
15	Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 03	wooden packaging

Table S2.2 Permitted waste types and quantities for the incineration of wood in the small waste co-incineration plant	
Maximum quantity	The total quantity of waste accepted at the site for use in the small waste co-incineration plant shall be less than 10,000 tonnes per year. Maximum storage on site at any one time: 150 tonnes
Waste code	Description
15 01 05	composite packaging
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 02	wood, glass and plastic
17 02 01	wood
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 07	wood other than that mentioned in 19 12 06
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 38	wood other than that mentioned in 20 01 37

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 on emissions point plan (Figure 5; Application Variation – Addendum to Permit Variation)	No parameters set	Boiler Plant Flue (gas fired; back up boiler)	No limit set	-	-	-
A2 on emissions point plan (Figure 5; Application Variation – Addendum to Permit Variation)	No parameters set	Omelette Oven abatement plant	No limit set	-	-	-
A3 on emissions point plan (Figure 5; Application Variation – Addendum to Permit Variation)	No parameters set	Boiler Plant Flue (gas fired; back up boiler)	No limit set	-	-	-
A4 on emissions point plan (Figure 5; Application Variation – Addendum to Permit Variation)	Particulate matter	Exhaust gases from SWCP	45 mg/m ³	½-hr average	Continuous measurement	BS EN 14181
A4	Particulate matter	Exhaust gases from SWCP	15 mg/m ³	daily average	Continuous measurement	BS EN 14181
A4	Total Organic Carbon (TOC)	Exhaust gases	30 mg/m ³	½-hr average	Continuous measurement	BS EN 14181

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
		from SWCP				
A4	Total Organic Carbon (TOC)	Exhaust gases from SWCP	15 mg/m ³	daily average	Continuous measurement	BS EN 14181
A4	Hydrogen chloride	Exhaust gases from SWCP	90 mg/m ³	½-hr average	Continuous measurement	BS EN 14181
A4	Hydrogen chloride	Exhaust gases from SWCP	15 mg/m ³	daily average	Continuous measurement	BS EN 14181
A4	Hydrogen fluoride	Exhaust gases from SWCP	3 mg/m ³	periodic over minimum 1-hour period	Quarterly in the first year of operation, then bi-annual	BS ISO 15713
A4	Carbon monoxide	Exhaust gases from SWCP	150 mg/m ³	½-hr average	Continuous measurement	BS EN 14181
A4	Carbon monoxide	Exhaust gases from SWCP	75 mg/m ³	daily average	Continuous measurement	BS EN 14181
A4	Sulphur dioxide	Exhaust gases from SWCP	300 mg/m ³	½-hr average	Continuous measurement	BS EN 14181
A4	Sulphur dioxide	Exhaust gases from SWCP	75 mg/m ³	daily average	Continuous measurement	BS EN 14181
A4	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	Exhaust gases from SWCP	600 mg/m ³	½-hr average	Continuous measurement	BS EN 14181
A4	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	Exhaust gases from SWCP	300 mg/m ³	daily average	Continuous measurement	BS EN 14181
A4	Cadmium & thallium and their compounds (total)	Exhaust gases from SWCP	0.075 mg/m ³	periodic over minimum 30 minute,	Quarterly in the first year of operation, then bi-annual	BS EN 14385

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
				maximum 8 hour period		
A4	Mercury and its compounds	Exhaust gases from SWCP	0.075 mg/m ³	periodic over minimum 30 minute, maximum 8 hour period	Quarterly in the first year of operation, then bi-annual	BS EN 13211
A4	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	Exhaust gases from SWCP	0.75 mg/m ³	periodic over minimum 30 minute, maximum 8 hour period	Quarterly in the first year of operation, then bi-annual	BS EN 14385
A4	Ammonia (NH ₃)	Exhaust gases from SWCP	No limit set	periodic over minimum 1-hour period	Quarterly in the first year of operation, then bi-annual	BS EN 14181 <i>or</i> Procedural requirements of BS EN 14791
A4	Nitrous oxide (N ₂ O)	Exhaust gases from SWCP	No limit set	periodic over minimum 1-hour period	Quarterly in the first year of operation, then bi-annual	BS EN 14181 BS EN ISO 21258
A4	Dioxins / furans (I-TEQ)	Exhaust gases from SWCP	0.15 ng/m ³	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in the first year of operation, then bi-annual	BS EN 1948 Parts 1, 2 and 3
A4	Dioxins / furans (WHO-TEQ Humans / Mammals)	Exhaust gases from SWCP	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in the first year of operation, then bi-annual	BS EN 1948 Parts 1, 2 and 3
A4	Dioxins / furans (WHO-TEQ Fish)	Exhaust gases from SWCP	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in the first year of operation, then bi-annual	BS EN 1948 Parts 1, 2 and 3
A4	Dioxins / furans (WHO-TEQ Birds)	Exhaust gases from SWCP	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in the first year of operation, then bi-annual	BS EN 1948 Parts 1, 2 and 3

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A4	Dioxin-like PCBs (WHO-TEQ Humans / Mammals)	Exhaust gases from SWCP	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in the first year of operation, then bi-annual	BS EN 1948-4
A4	Dioxin-like PCBs (WHO-TEQ Fish)	Exhaust gases from SWCP	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in the first year of operation, then bi-annual	BS EN 1948-4
A4	Dioxin-like PCBs (WHO-TEQ Birds)	Exhaust gases from SWCP	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in the first year of operation, then bi-annual	BS EN 1948-4
A4	Specific individual poly-cyclic aromatic hydrocarbons (PAHs), as specified in Schedule 6.	Exhaust gases from SWCP	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in the first year of operation, then bi-annual	BS ISO 11338 Parts 1 and 2.

Emission point ref. & location	Parameter	Source	Limit (including unit) ^{note1}	Reference period	Monitoring frequency	Monitoring standard or method
A4	Particulate matter	Exhaust gases from SWCP	225 g/m ³	½-hr average	Continuous measurement	BS EN 14181 during abatement plant failure
A4	Total Organic Carbon (TOC)	Exhaust gases from SWCP	30 mg/m ³	½-hr average	Continuous measurement	BS EN 14181 during abatement plant failure
A4	Carbon monoxide	Exhaust gases from SWCP	150 mg/m ³	½-hr average	Continuous measurement	BS EN 14181 during abatement plant failure

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on emissions point plan (Figure 5; Application Variation – Addendum to Permit Variation)	No parameters set	Uncontaminated surface water from site via interceptor to River Sheppy	No limit set	-	-	-

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 on emissions point plan (Figure 5; Application Variation – Addendum to Permit Variation) Emission to Wessex Water plc	pH	Site effluent treatment plant	No limit set	-	-	-
	Effluent flow rate		No limit set	-	-	-
	COD		No limit set	-	-	-
	Suspended solids		No limit set	-	-	-

Table S3.4 Process monitoring requirements for activity AR5 in Table S1.1, SWCP				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
As identified in the Application	Wind Speed and Direction	Continuous	Anemometer	
Location close to the Combustion Chamber inner wall or as identified and justified in Application.	Temperature (° C)	Continuous	Traceable to national standards	As agreed in writing with the Agency.
A4	Exhaust gas temperature	Continuous	Traceable to national standards	As agreed in writing with the Agency.

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
A4	Exhaust gas pressure	Continuous	Traceable to national standards	As agreed in writing with the Agency.
A4	Exhaust gas oxygen content	Continuous	BS EN 15267-3 BS EN 14181	
A4	Exhaust gas water vapour content	Continuous	BS EN 15267-3 BS EN 14181	Unless gas is dried before analysis of emissions.

Emission point reference or source or description of point of measurement	Parameter	Limit	Monitoring frequency	Monitoring standard or method *	Other specifications
Bottom Ash	TOC or LOI	<3% (for TOC) <5% (for LOI)	Monthly in the first year of operation, then quarterly	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'	
Bottom Ash	Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.	No limit set	Monthly in the first year of operation. then quarterly	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'	
Bottom Ash	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions	No limit set	Before use of a new disposal or recycling route	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'	

Table S3.5 Residue quality for activity AR5 in Table S1.1, SWCP					
Emission point reference or source or description of point of measurement	Parameter	Limit	Monitoring frequency	Monitoring standard or method *	Other specifications
APC Residues	Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.	No limit set	Monthly in the first year of operation, then quarterly	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'	
APC Residues	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions	No limit set	Before use of a new disposal or recycling route	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'	

* Or other equivalent standard as agreed in writing with the Environment Agency.

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Process monitoring Parameters as required by condition 3.5.1	-	Every 12 months	1 January
Emissions to air Parameters as required by condition 3.5.1	A4	Quarterly	1 Jan, 1 Apr, 1 Jul and 1 Oct
TOC or LOI Parameters as required by condition 3.5.1	Bottom Ash	Quarterly (but monthly for the first year of operation)	1 Jan, 1 Apr, 1 Jul and 1 Oct
Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs Parameters as required by condition 3.5.1	Bottom Ash	Quarterly (but monthly for the first year of operation)	1 Jan, 1 Apr, 1 Jul and 1 Oct
Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions Parameters as required by condition 3.5.1	Bottom Ash	Before use of a new disposal or recycling route	
Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs Parameters as required by condition 3.5.1	APC Residues	Quarterly (but monthly for the first year of operation)	1 Jan, 1 Apr, 1 Jul and 1 Oct
Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions Parameters as required by condition 3.5.1	APC Residues	Before use of a new disposal or recycling route	
Functioning and monitoring of the incineration plant as required by condition 4.2.2		Annually	1 Jan

Table S4.2: Annual production/treatment	
Parameter	Units
Processing and packing of liquid egg, fruit juice, dairy, soya and goats milk	tonnes
Total Waste Incinerated	tonnes
Heat utilised by the installation	KWh

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³ /t
Energy usage	Annually	MWh
Natural gas use	Annually	m ³ / tonne of waste incinerated
Bottom Ash residue	Annually	Route, tonnes and tonnes / tonne of waste incinerated
APC residue	Annually	Route, tonnes and tonnes / tonne of waste incinerated
Urea consumption	Annually	Kg / tonne of waste incinerated
Sodium bicarbonate consumption	Annually	Kg / tonne of waste incinerated
Periods of abnormal operation	Annually	No of occasions and cumulative hours for current calendar year for each line.

Table S4.4 Reporting forms		
Parameter	Reporting form	Form version number and date
Point source emissions to air	Emissions to Air Reporting Forms 1 - 7 , or other form as agreed in writing by the Environment Agency	21/10/2021
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	21/10/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	21/10/2021
Waste disposal/recovery	Form R1 or other form as agreed in writing by the Environment Agency	21/10/2021

Table S4.4 Reporting forms		
Parameter	Reporting form	Form version number and date
Residue quality	Form residue 1 or other form as agreed in writing by the Environment Agency	21/10/2021
Other performance parameters	Form performance 1, or other form as agreed in writing by the Environment Agency	21/10/2021

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“abatement equipment” means that equipment dedicated to the removal of polluting substances from releases from the installation to air or water media.

“*abnormal operation*” means any technically unavoidable stoppages, disturbances, or failures of the abatement plant or the measurement devices, during which the emissions into the air and the discharges of waste water may exceed the prescribed emission limit values

“accident” means an accident that may result in pollution.

“APC residues” means air pollution control residues

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“bottom ash” means ash falling through the grate;

“CEM” means Continuous emission monitor

“CEN” means Comité Européen de Normalisation

“Commissioning” means testing of the new incineration plant that involves any operation of the furnace [or as agreed with the Environment Agency].

“daily average” for releases of substances to air means the average of valid half-hourly averages during normal operation.

“dioxin and furans” means polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“ISO” means International Standards Organisation.

“List of Wastes” means the list of wastes established by Commission Decision [2000/532/EC](#) replacing Decision [94/3/EC](#) establishing a list of wastes pursuant to Article 1(a) of Council Directive [75/442/EEC](#) on

waste and Council Decision [94/904/EC](#) establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive [91/689/EEC](#) on hazardous waste.

“LOI” means loss on ignition a technique used to determine the combustible material by heating the ash residue to a high temperature

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“Medium Combustion Plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“PAH” means Poly-cyclic aromatic hydrocarbon, and comprises Anthanthrene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[b]naph(2,1-d)thiophene, Benzo[c]phenanthrene, Benzo[ghi]perylene, Benzo[a]pyrene, Cholanthrene, Chrysene, Cyclopenta[c,d]pyrene, Dibenz[ah]anthracene, Dibenz[a,i]pyrene, Fluoranthene, Indo[1,2,3-cd]pyrene, Naphthalene

“PCB” means Polychlorinated Biphenyl. Dioxin-like PCBs are the non-ortho and mono-ortho PCBs listed in the table below.

Pests” means Birds, Vermin and Insects.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“recovery” means any of the operations provided for in Annex II to the Waste Framework Directive.

“shut down” is any period where the plant is being returned to a non-operational state and there is no waste being burned as described in the application or agreed in writing with the Environment Agency.

“start up” is any period, where the plant has been non-operational, until waste has been fed to the plant [in sufficient quantity to cover the grate and to initiate steady-state conditions

“TOC” means Total Organic Carbon. In respect of releases to air, this means the gaseous and vaporous organic substances, expressed as TOC. In respect of Bottom Ash, this means the total carbon content of all organic species present in the ash (excluding carbon in elemental form).

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“year” means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- (a) in relation to gases from co-incineration plants the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 6% dry

For dioxins/furans and dioxin-like PCBs the determination of the toxic equivalence concentration (I-TEQ, & WHO-TEQ for dioxins/furans, WHO-TEQ for dioxin-like PCBs) stated as a release limit and/ or reporting requirement, the mass concentrations of the following congeners have to be multiplied with their respective toxic equivalence factors before summing. When reporting on measurements of dioxins/furans and dioxin-like PCBs, the toxic equivalence concentrations should be reported as a range based on: all congeners less

than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum. However the minimum value should be used when assessing compliance with the emission limit value in table S3.1.

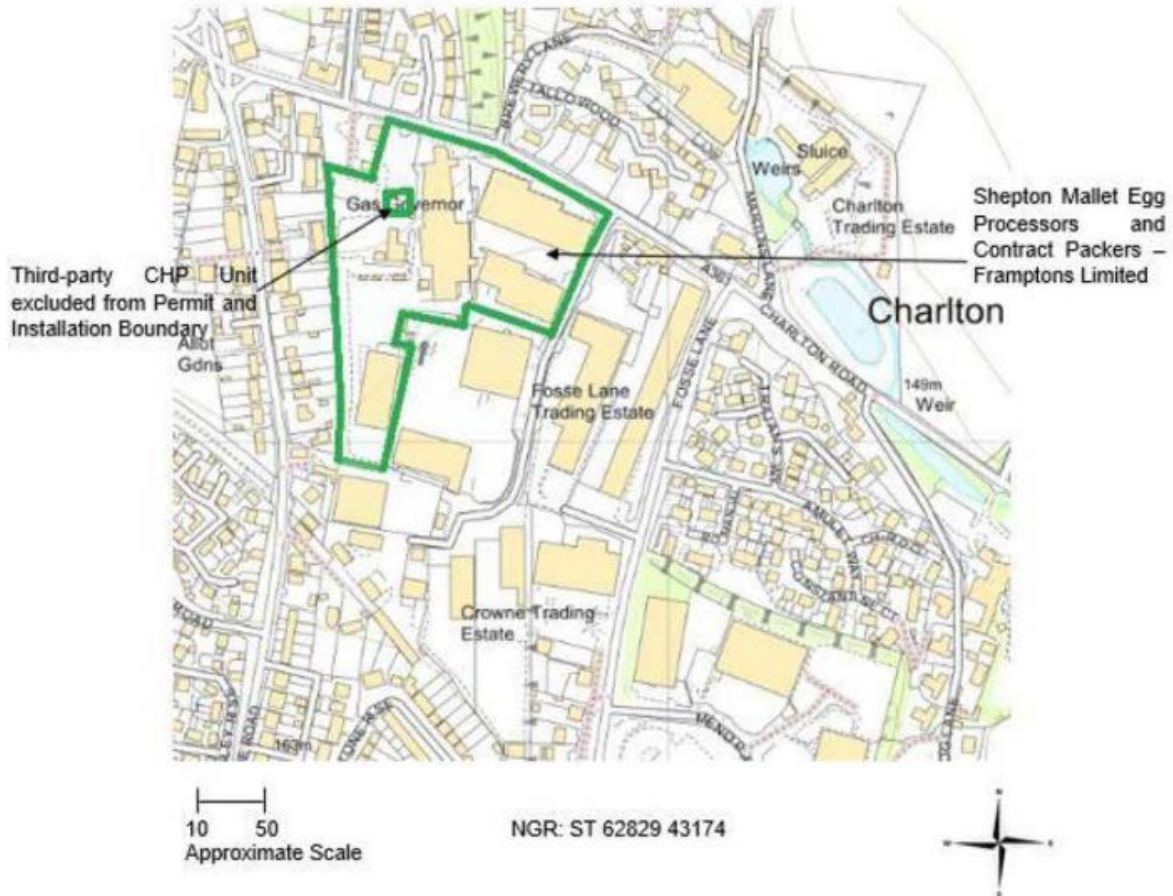
TEF schemes for dioxins and furans				
Congener	I-TEF	WHO-TEF		
	1990	2005	1997/8	
		Humans / Mammals	Fish	Birds
Dioxins				
2,3,7,8-TCDD	1	1	1	1
1,2,3,7,8-PeCDD	0.5	1	1	1
1,2,3,4,7,8-HxCDD	0.1	0.1	0.5	0.05
1,2,3,6,7,8-HxCDD	0.1	0.1	0.01	0.01
1,2,3,7,8,9-HxCDD	0.1	0.1	0.01	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.001	<0.001
OCDD	0.001	0.0003	-	-
Furans				
2,3,7,8-TCDF	0.1	0.1	0.05	1
1,2,3,7,8-PeCDF	0.05	0.03	0.05	0.1
2,3,4,7,8-PeCDF	0.5	0.3	0.5	1
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.01	0.01
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.01	0.01
OCDF	0.001	0.0003	0.0001	0.0001

TEF schemes for dioxin-like PCBs			
Congener	WHO-TEF		
	2005	1997/8	
	Humans / mammals	Fish	Birds
Non-ortho PCBs			
3,4,4',5-TCB (81)	0.0001	0.0005	0.1
3,3',4,4'-TCB (77)	0.0003	0.0001	0.05
3,3',4,4',5 - PeCB (126)	0.1	0.005	0.1
3,3',4,4',5,5'-HxCB(169)	0.03	0.00005	0.001

TEF schemes for dioxin-like PCBs			
Congener	WHO-TEF		
	2005	1997/8	
	Humans / mammals	Fish	Birds
Mono-ortho PCBs			
2,3,3',4,4'-PeCB (105)	0.00003	<0.000005	0.0001
2,3,4,4',5-PeCB (114)	0.00003	<0.000005	0.0001
2,3',4,4',5-PeCB (118)	0.00003	<0.000005	0.00001
2',3,4,4',5-PeCB (123)	0.00003	<0.000005	0.00001
2,3,3',4,4',5-HxCB (156)	0.00003	<0.000005	0.0001
2,3,3',4,4',5'-HxCB (157)	0.00003	<0.000005	0.0001
2,3',4,4',5,5'-HxCB (167)	0.00003	<0.000005	0.00001
2,3,3',4,4',5,5'-HpCB (189)	0.00003	<0.000005	0.00001

Schedule 7 – Site plan

FIGURE 4 SITE PLAN



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END OF PERMIT